



BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

KODIGEHALI SUB DIVISOIN

**Name of the Work : Maintenance of existing borewells in Ward
No.08 Kodigehalli**

Estimated Cost : 12.00 Lakhs

Head of Account : P-1771

Job Code : 008-20-000074

BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Name of Work: Maintenance of existing borewells in Ward No.08 Kodigehalli

SI No	Description of item	Unit	No	L	B	D	Est Cost Rs. 1200000.00		
							Qty	Rate	Amount
	A) Rewinding								
1	Lifting of Submersible pump set as per Specification and direction (P. 94 / I. 12.34.J) RWS SR (2019-20)	Each	18				18.00	1295.00	23310.00
2	Transportation of pumping machineries (P. 94 / I. 12.34.H) RWS SR (2019-20)	Each	18				18.00	1085.00	19530.00
3	Labour charges (over hauling) (P. 94 / I. 12.34.K) RWS SR (2019-20)	Each	18				18.00	3060.00	55080.00
4	A) Repairs to Motor: Rewinding of submersible pump sets with copper insulation wire of suitable gauge as per ISI specification with guarantee of 6 months. P No. 93 / I. No. 12.33) (RWS SR 2019-20)								
	Rewinding of motor of 10.0 HP	Each	0				0.00	4760.00	0.00
5	Rewinding of motor of 12.5 HP above	Each	18				18.00	5320.00	95760.00
	B) Replacement of Motor Parts:								
6	Starter 5 HP (with one year Guarantee) P No. 93 / I No. 12.33.2C RWS SR (2019-20)	Each	18				18.00	5535.00	99630.00
7	Rotor (with one year Guarantee) P No. 93 / I No. 12.33.3C RWS SR (2019-20)	Each	18				18.00	5175.00	93150.00
8	Upper Flange (P No. 93 / I No. 12.33.3D RWS SR (2019-20)	Each	18				18.00	400.00	7200.00
9	Lower Flange (P No. 93 / I No. 12.33.3E RWS SR (2019-20)	Each	18				18.00	400.00	7200.00
10	Upper Housing (P No. 93 / I No. 12.33.3F RWS SR (2019-20)	Each	18				18.00	724.00	13032.00
11	Lower Housing (P No. 93 / I No. 12.33.3G RWS SR (2019-20)	Each	18				18.00	724.00	13032.00
12	Carbon housing Thrust bearing block assembly complete with segment bearing pad & tip carbon/Ferradopadding pad. P. No. 94 / I No.12.34.A RWS SR (2019-20)	Each	18				18.00	1137.00	20466.00
	C) Replacement of pump parts: The following main components of submersible pump sets requiring replacement.								

SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
13	Oil Seal P. No. 93 / I No.12.32.1C RWS SR (2019-20)	Each	18				18.00	171.00	3078.00
14	Oil Seal Steel bush P. No. 152 / I No.12.32.1D RWS SR (2019-20)	Each	18				18.00	171.00	3078.00
15	Guide vane P. No. 93 / I No.12.32.1E RWS SR (2019-20)	Each	240				240.00	450.00	108000.00
16	Impeller Shell moulded with aluminium Bronze) P. No. 93 / I No.12.32.1F RWS SR (2019-20)	Each	240				240.00	682.00	163680.00
17	Discharge outlet (D.O) Bearing D.O Steel Bush P. No. 93 / I No.12.32.1G RWS SR (2019-20)	Each	18				18.00	640.00	11520.00
18	Steel bush (D.O steel bush) P. No. 93 / I No.12.32.1I RWS SR (2019-20)	Each	18				18.00	213.00	3834.00
19	Pump shaft made out of stainless steel Centreless ground with key way (upto 8 stages) P. No. 93 / I No.12.32.1K RWS SR (2019-20)	Each	18				18.00	1281.00	23058.00
20	Non – return valve (NRV) assembly complete with rubber 'O' Ring P. No. 93 / I No.12.32.1N RWS SR (2019-20)	Each	18				18.00	315.00	5670.00
21	Cable Guard P. No. 93 / I No.12.32.1O RWS SR (2019-20)	Each	18				18.00	176.00	3168.00
22	Brass Filter P. No. 93 / I No.12.32.1Q RWS SR (2019-20)	Each	18				18.00	636.00	11448.00
23	Re-erection charges of pumping machineries including overhauling and pointing P. No. 93 / I No.12.34.I RWS SR (2019-20)	Each	18				18.00	1711.00	30798.00
Other Parts									
24	Providing non-return valve 50 mm Page No. XLVII, SI No. 16, PWD SR 2018-19	Nos	10				10.00	1800.00	18000.00
25	Providing Gate Valve 50 mm Page No. XLVII, SI No. 15, PWD SR 2018-19	Nos	9				9.00	1800.00	16200.00
26	Submersible Cable 1x3x6.0 Sq.mm (PWD SR 2018-19 Page No. XLVII SI No. 8)	M	4	150.00			600.00	144.00	86400.00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
27	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws., P No. 24 / I No. 5.6.6 KPWD Electrical SR 2019-20	Each							
			18				18.00	292.00	5256.00
28	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV. P. No. 41 / I No. 6.9.1 KPWD Electrical SR 2019-20	Mtr							
	40mm dia GI pipe		18	4.00			72.00	335.00	24120.00
29	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc. P. No. 42 / I.No. 7.10.2 KPWD Electrical SR 2019-20	No.							
	16Sqmm		18				18.00	270.00	4860.00
30	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 12 mm dia, (P No. 40, I No. 6.1) KPWD Electrical SR 2019-20	No							
			5				5.00	2999.70	14999.00
31	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. P No. 24 / I No. 5.7.2 KPWD Electrical SR 2019-20	No.							
	32 Amps		18				18.00	174.00	3132.00

SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
32	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 6-32Amps TPN P No. 27 / I No.5.17.7 KPWD SR 2019-20	No	10				10.00	1715.00	17150.00
33	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete P.No. 30, I. No. 5.42.2 KPWD Electrical SR 2019-20	Sq.Cm							
	16SWG		4x2	120.00	60.00			115200.00	
			8	360.00	25.00			72000.00	
								187200.00	0.35
									65520.00
	Sub Total								1070359.00
	GST @ 12%								128443.00
	Miscellaneous and Unforeseen Charges	L/S							1198.00
	Total								1200000.00

Administrative Approval

Accorded For Rs. 12.00 lakhs

Head of A/C. P-1802

CER NO. 101/21-22 D. 14/02/2022

CERTIFICATE:

- The work spot has been inspected and the work is found necessary.
- This estimate is prepared as per C.S.R. of RWS SR 2019-20, KPWD SR 2019-20.
- The provisions were made in this estimate are necessary and adequate.
- This works come under B.B.M.P. limits.

[Signature]
Junior Engineer
Ward no. 8
Kodigehalli

[Signature]
Assistant Executive Engineer
Kodigehalli Sub Division
BBMP

[Signature]
Executive Engineer
Byatarayanapura Division
BBMP

TECHNICAL SANCTION	
Accorded For Rs.	12.00 lakhs only
Head of A/c.	P1802
Div. Ref. No.	47
Date	16/02/2022
AE	<i>[Signature]</i> EE(BTP)